BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARINAGAR ZONE
ELECTRICAL DIVISION
DETAILED ESTIMATE FOR PUBLIC WORKS

Name of the Work: Providing M&R to Muscical fountain HT yard at JP Park in ward no 17.

Est. No.AEE/ELE/RRNZ/ EST/ / 16-17			Job Code: 017-16-000016			Est Amount: Rs 100000.00
Sl No	**sl no**	**Description of Work**	**unit**	**Qty**	**Rate**	**Amount**
1	6.13.A	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE (Item No. - 6.13.A)				
	6.13.A.5	400Amps 50kA. (Item No. - 6.13.A.5)	Each	1	21310.00	21310.00
2	6.38	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. (Item No. - 6.38)				
	6.38.3	400Amps 4x50x10mm Aluminum Strips (Item No. - 6.38.3)	Mtr	1.5	3823.00	5734.50
3	6.39	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. (Item No. - 6.39)				
	6.39.1	40x40x6mm (Item No. - 6.39.1)	Mtr	8	263.00	2104.00
4	6.4	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. (Item No. - 6.4)				
	6.40.1	14SWG (Item No. - 6.40.1)	sq.cms	18000	0.37	6660.00

Sl No	sl no	Description of Work	unit	Qty	Rate	Amount
5	7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (Item No. - 7.1)	No	4	2727.00	10908.00
6	7.2	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. (Item No. - 7.2)	No	4	4317.00	17268.00
7	7.3.A	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip (Item No. - 7.3.A)				
	7.3.A.1	25x3mm (Item No. - 7.3.A.1)	Mtr	10	77.00	770.00
8	7.3.B	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. 25x3mm Copper strip (Item No. - 7.3.B)				
	7.3.B.10	600x600x3mm plate (Item No. - 7.3.B.10)	Each	2	7148.00	14296.00
9	16.3	Filtering of oil in the transformer at the transformer center by hot process using "Stream line filter" such time the dielectric strength of the oil in the transformer conforms to ISI specification [Test certificate to be produced] (Item No. - 16.3)	Litre	350	20.00	7000.00
10	16.31	Supplying and fixing of ....mm dia 2mm wall thickness 15 KV class alkathine pipe to bus bar leads etc., at sub station. (Item No. - 16.31)				
	16.31.2	25 mm (Item No. - 16.31.2)	Mtrs	18	40.00	720.00
11	16.32	Supplying and filling fresh silica gel to the breather of transformers. (Item No. - 16.32)	Per breather	1	140.00	140.00
12	16.33	Supplying and Testing of OIL for Di-Electric strength (BDV) / Acidity (Item No. - 16.33)	Per Sample	1	197.00	197.00
13	16.34	Supplying and Topping -up of new Transil OIL (Item No. - 16.34)	Per Litre	35	170.00	5950.00
14	BESCOM SR 2014-15-i-37	SUPPLYING &SPREADING 100MM THICK 20/25 MMJELLY WITH ALL LEAD &LIFT	CMT	3	1686.14	5058.42

Sl No	sl no	Description of Work	unit	Qty	Rate	Amount
15	KPWD (civil)SR 2014	Providing and applying alluminium paint two coats (excluding priming coats) over new steel or other metal surface brushing to give av even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specification (Item No -15.76,Page No-117)	Sqm	35	51.94	1817.90
		miscellaneous & round off				66.18
		Total Rs				**100000.00**

1) Certified that,the work spot has been inspected by me & prepared the estimate in most economical way of executing the work.

2.) The Provisions made in the estimate are adequate and are necessary.

3.) The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.

4.) The rates in the Estimate is based on the KPWD (Elect) SR 2014-15.

Junior Engineer(Electrical)
RR Nagar Zone
BBMP

Assistant Executive Engineer (Elect)
RR Nagar Zone
BBMP

Executive Engineer(Elect)
RR Nagar Zone
BBMP

Administrative Sanctioned for Rs. 100000-00
Rs. Rupees one lakh only .....
.....is accorded
under ... P0294 .....
.....
By EE ... page 14&15 .....
Reg... 39/16-17 Subject
to ... enclosed memo
No. 39/16-17 Date 10/5/16
AE ... EE, (Elect) RRN

Technically Sanctioned for Rs. 100000.00
Rs. Rupees one lakh only .....
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under ... P0294 .....
.....
By EE (Elect) ... page 12&13 .....
Registered as ... No. 31/16-17 Subject
to conditions contained in enclosed memo
No. 31/16-17 Date 11/5/16
AE, (Elect) RRN ... EE, (Elect) RRN